

# PATENT ABSTRACTS OF JAPAN

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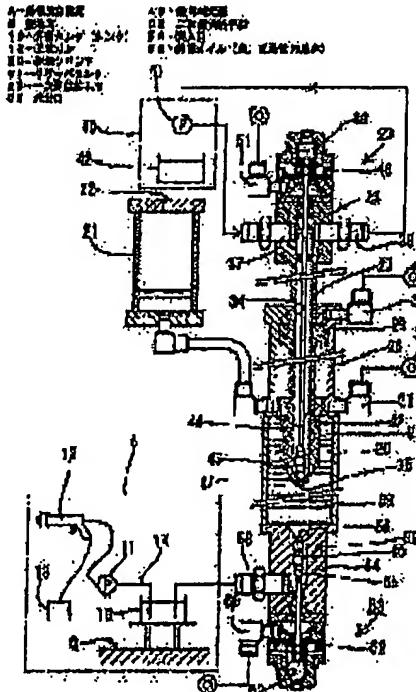
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## (54) DEVICE FOR REFILLING COATING MATERIAL

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To miniaturize an insulation cylinder and prevent a coating material from drying.

**SOLUTION:** When an aqueous coating material is not refilled, a primary side supply means 23 is insulated from a secondary side supply means 53 by an insulation oil 68 (an insulation liquid) and, when refilled, an outflow port 35 is connected to an inflow port 56 with the secondary side being up to a high potential state. During this time, an electrostatic coating is continued with the insulation held in a high potential state in a coating gun side 12. The insulation cylinder 20 can be miniaturized compared to an air insulation by shortening an insulation distance because insulation is carried out by the liquid insulation oil 68. Then, when the aqueous coating material is not refilled, the coating material stuck to the outflow port 35 and the inflow port 56 is not brought into contact with air because the outflow port 35 and the inflow port 56 are faced to the liquid insulation oil 68.



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